

(19) KOREAN INTELLECTUAL PROPERTY OFFICE

KOREAN PATENT ABSTRACTS

(11)Publication number: 010078440 A
(43)Date of publication of application: 21.08.2001

(21)Application number: 010001481
(22)Date of filing: 11.01.2001

(71)Applicant: BIOLEADERS CORPORATION
(72)Inventor: ASIUCHIMAKOTO
BAEK, DAE HEON
CHOI, YUN HO
HAN, JAE SUK
HONG, SEUNG PYO
LEE, SEUNG GU
SHIN, SEON YEONG
SODAGENJI
SONG, JAE JUN
SUNG, MUN HUI

(51) Int. Cl.

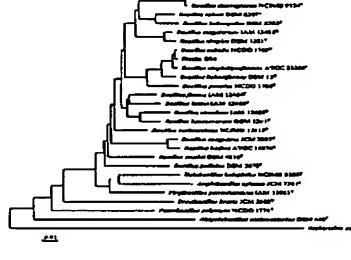
C12N 1/20

(54) BACILLUS SUBTILIS VAR. CHUNGKOKJANG (KTCT 0697BP) PRODUCING POLY-GAMMA-GLUTAMIC ACID OF HIGH MOLECULAR WEIGHT

(57) Abstract:

PURPOSE: Provided is salt tolerant strain, *Bacillus subtilis*var. chungkookjang (KTCT 0697BP) isolated from Korean traditional fermented food, chungkookjang. And poly-gamma-glutamic acid is also provided which is edible, water-soluble, anionic, biodegradable and produced from the strain, and which is used in cosmetics, absorbent, biodegradable plastic materials.

CONSTITUTION: A *Bacillus subtilis* var. *chungkookjang* (KTCT 0697BP) is isolated from chungkookjang. A preparation method of poly-gamma-glutamic acid from the strain comprises the steps of: (a) inoculating and cultivating *Bacillus subtilis* var. *chungkookjang* (KTCT 0697BP) in a medium to produce poly-gamma-glutamic acid and then, adding acids until PH becomes 2 to 4 , to obtain liquid that includes poly-gamma-glutamic acid; (b) removing polysaccharide from the resultant liquid, followed by extracting with solvent and centrifuging it to obtain precipitate of poly-gamma-glutamic acid; (c) dissolving the precipitant by adding distilled water, then degrading exogenous protein by proteinase; and (d) dialyzing it to remove free glutamic acid and concentrating it.



COPYRIGHT 2001 KIPO

Legal Status

Date of request for an examination (aaaaaaa)

Notification date of refusal decision (00000000)

Final disposal of an application (withdrawal)

Date of final disposal of an application (20020910)
Date of next filing (20020920)

Date of registration (00000000)

Date of opposition against the grant of a patent (00000000)